SHARP

MICRO COMPONENT SYSTEM

OPERATION MANUAL

MODEL

XL-530H

Thank you for purchasing this SHARP product.
To obtain the best performance from this product please read this manual carefully.
It will guide you in operating your SHARP product.

COMPACT disc DIGITAL AUDIO

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SPECIAL NOTES

NOTE FOR USERS IN THE U.K.

The mains lead of this product is fitted with a non-rewireable (moulded) plug incorporating a 3A fuse. Should the fuse need to be replaced, a BSI or ASTA approved BS 1362 fuse marked ⓚ or ⓐ and of the same rating as above, which is also indicated on the pin face of the plug must be used.

Always refit the fuse cover after replacing the fuse. Never use the plug without the fuse cover fitted.

In the unlikely event of the socket outlet in your home not being compatible with the plug supplied, cut-off the mains plug and fit an appropriate type.

DANGER:
The fuse from the cut-off plug should be removed and the cut-off plug destroyed immediately and disposed of in a safe manner.

Under no circumstances should the cut-off plug be inserted elsewhere into a 13A socket outlet as a serious electric shock may occur.

To fit an appropriate plug to the mains lead, follow the instructions below:

IMPORTANT:
The wires in the mains lead are coloured in accordance with the following code:

Blue : Neutral
Brown : Live

As the colours of the wires in the mains lead of this product may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

- The wire which is coloured blue must be connected to the plug terminal which is marked N or coloured black.
- The wire which is coloured brown must be connected to the plug terminal which is marked L or coloured red.

Ensure that neither the brown nor the blue wire is connected to the earth terminal in your three pin plug.

Before replacing the plug cover, make sure that:

- If the new fitted plug contains a fuse, its value is the same as that removed from the cut-off plug.
- The cord grip is clamped over the sheath of the mains lead and not simply over the lead wires.

IF YOU HAVE ANY DOUBT, CONSULT A QUALIFIED ELECTRICIAN.

SERVICE INFORMATION
In the unlikely event of your equipment requiring repair, please contact the dealer or supplier from whom it was purchased. Where this is not possible, please contact the telephone number listed below. You will then be given details of how to obtain service.

- 0345-125387 -

Please note; all calls will be charged at local rate.

Certain replacement parts and accessories may be obtained from our main parts distributor.

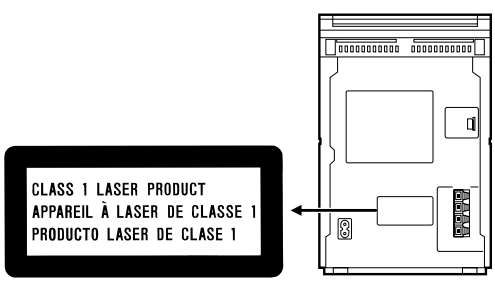
WILLOW VALE ELECTRONICS LTD.

MANCHESTER 0161-682-1415
READING 01189-876444

In the unlikely event of this equipment requiring repair during the guarantee period, you will need to provide proof of the date of purchase to the repairing company. Please keep your invoice or receipt, which is supplied at the time of purchase.

- Recording and playback of any material may require consent, which SHARP is unable to give. Please refer particularly to the provisions of the Copyright Act 1956, the Dramatic and Musical Performers Protection Act 1958, the Performers Protection Acts 1963 and 1972 and to any subsequent statutory enactments and orders.
- This equipment complies with the requirements of Directives 89/336/EEC and 73/23/EEC as amended by 93/68/EEC.
- When the ON/STAND-BY button is set at STAND-BY position mains voltage is still present inside the unit. When the ON/STAND-BY button is set at STAND-BY position and the clock is displayed, the unit may be brought into operation by the timer mode or remote control.

Warning:
This unit contains no user serviceable parts. Never remove covers unless qualified to do so. This unit contains dangerous voltages, always remove mains plug from the socket before any service operation and when not in use for a long period.



CAUTION
Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

As the laser beam used in this compact disc player is harmful to the eyes, do not attempt to disassemble the cabinet. Refer servicing to qualified personnel only.

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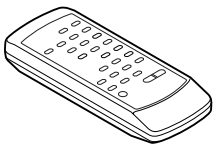
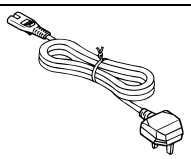
ACCESSORIES



Remote control × 1

FM/AM loop aerial × 1



AC power lead × 1

Note:
Parts and equipment mentioned in this operation manual other than those detailed above are not included.

PRECAUTIONS

■ General

- Please ensure that the equipment is positioned in a well ventilated area and ensure that there is at least 10 cm (4") of free space along the sides, top and back of the equipment.
- Do not use oil, solvents, petrol, paint thinners or insecticides on the unit.
- Do not expose the unit to moisture, to temperatures higher than 60˚C (140˚F) or to extreme low temperatures.
- Keep the unit away from direct sunlight, strong magnetic fields, excessive dust, humidity and electronic/electrical equipment (home computers, facsimiles, etc.) which generates electrical noise.
- Hold the AC power plug by the head when removing it from the AC socket, as pulling the lead can damage internal wires.
- When cleaning the heads, pinch roller, etc, remove the AC power plug from the wall socket as the unit contains high voltages.
  Do not remove the outer cover, as this may result in electric shock. Refer internal service to your local SHARP service facility.
- Use the unit on a firm, level surface free from vibration, and do not place anything on the top of the unit.
- If an electrical storm is taking place near you, it is suggested that you disconnect the AC power lead from the AC socket for safety.

Warning:
The voltage used must be the same as that specified on this unit. Using this product with a higher voltage than that which is specified is dangerous and may result in a fire or other type of accident causing damage. SHARP will not be held responsible for any damage resulting from use of this unit with a voltage other than that which is specified.

■ Volume control

The sound level at a given volume setting depends on a combination of speaker efficiency, location and various other factors.
It is advisable to avoid exposure to high volume levels, which occur whilst turning the unit on with the volume control setting up high, or whilst continually listening at high volumes.

■ Condensation

Sudden temperature changes, storage or operation in an extremely humid environment may cause condensation inside the cabinet (CD pickup, tape heads, etc.) or on the transmitter LED on the remote control. Condensation can cause the unit to malfunction.
If this happens, leave the power on with no disc (or cassette) in the unit until normal playback is possible (about 1 hour). Wipe off any condensation on the transmitter LED with a soft cloth before operating the unit.
Warning:
CD players use a laser pickup which can damage the eyes if viewed directly. Do not look at the pickup, and do not touch the pickup directly.

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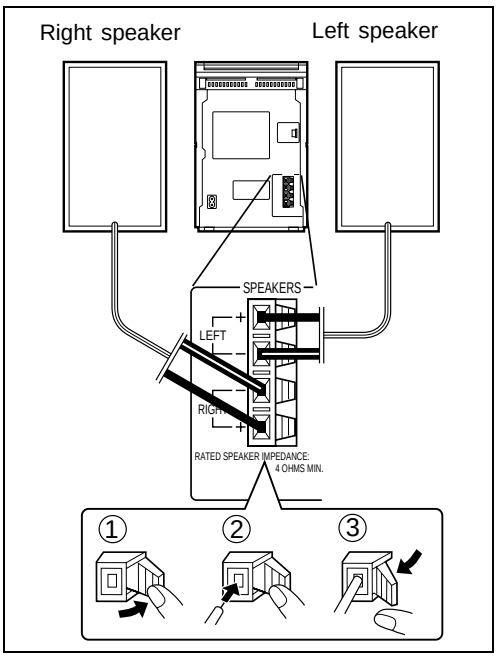
PREPARATION FOR USE

● Unplug the AC power lead from the AC socket before connecting or disconnecting any component.

■ Speaker connection



Connect each speaker wire to the SPEAKER terminals as shown.
Use speakers with an impedance of 4 ohms or more. Use of speakers with an impedance less than 4 ohms may damage your unit.

● Connect the wire with the white line to the minus (–) terminal and the plain wire to the plus (+) terminal.

Notes:

● Do not mix the right channel and left channel wiring when connecting the speakers to the unit.

● Do not let the bare speaker wires touch each other as this may damage the amplifier and/or speakers.

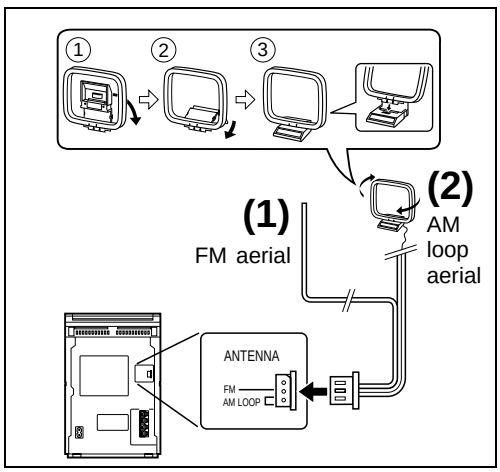
● The speaker grille is not removable.

Caution:

● The speakers included with the unit should only be used with the XL-530H. Do not use them with other models. Do not connect the XL-530H's speaker terminals to any speakers other than those included with the unit.

● Should the speakers included with this unit become defective, they can be repaired by your local service facility.
Please ensure that full model details are supplied with the faulty speaker to your local service facility.

■ Aerial connection



Connect the aerial wire to the ANTENNA socket.

(1) FM aerial

Position the FM aerial wire in the direction where the strongest signal can be received.

(2) AM loop aerial

Position the AM loop aerial for optimum reception.
Place the AM loop aerial on a shelf, etc., or attach it to a stand or wall with screws (not supplied).

Notes:

● Do not place the aerial on the main unit as it may result in noise pickup from the internal digital electronics.
Place the aerial away from the unit for better reception.

● If the AM loop aerial and the FM aerial wire are placed near the AC power lead, interference may result.

● Do not connect the attached FM aerial to an external FM aerial. Otherwise, trouble may occur.

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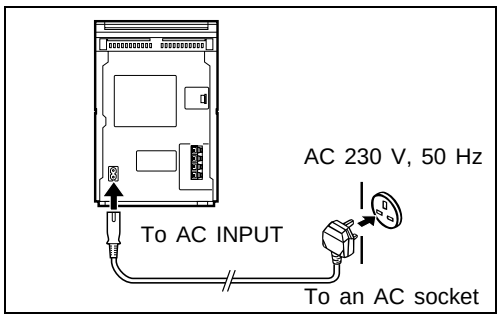
■ Connecting the AC power lead

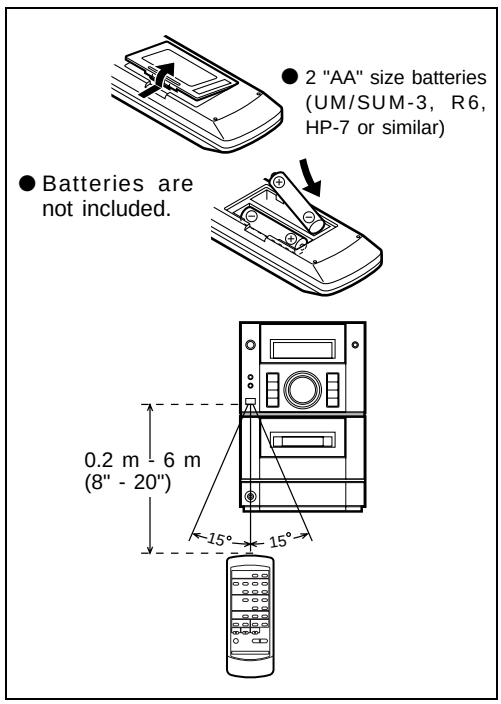


Connect the AC power lead to the AC power input socket, then connect the AC power lead plug to an AC socket.

Notes:

- Unplug the AC power lead from the AC socket if the unit is not to be used for a prolonged period of time.
- Never use a power lead other than the one supplied. Otherwise, a malfunction or an accident may occur.

■ Remote control



- When inserting or removing the batteries, push them towards the ⊖ battery terminals.
- Installing the batteries incorrectly may cause the unit to malfunction.

Precautions for battery use:

- Insert the batteries according to the direction indicated in the battery compartment.
- Replace all old batteries with new ones at the same time.
- Do not mix old and new batteries.
- Remove the batteries if they are weak or if the unit will not be used for long periods of time. This will prevent potential damage due to battery leakage.

Caution:

Do not use rechargeable batteries (nickel-cadmium battery, etc.).

Notes concerning use:

- Replace the batteries if the operating distance is reduced or if the operation becomes erratic.
- Periodically clean the transmitter LED on the remote control and the sensor on the main unit with a soft cloth.
- Exposing the sensor on the main unit to strong light may interfere with operation. Change the lighting or the direction of the unit.
- Keep the remote control away from moisture, excessive heat, shock, and vibrations.

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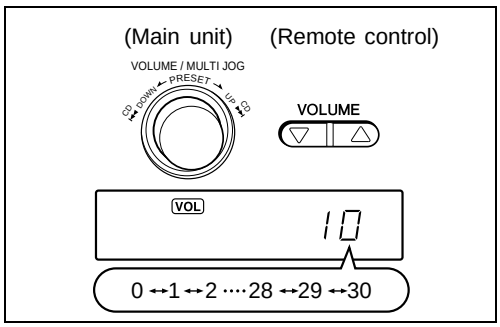
SOUND CONTROL

■ Volume



(Main unit operation)

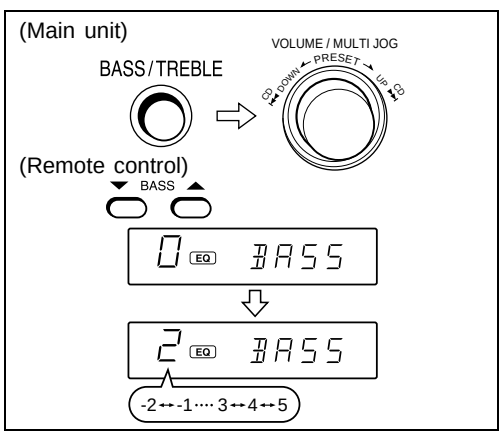
When the VOLUME control is turned clockwise, the volume will increase. When it is turned anti-clockwise, the volume will decrease.

(Remote control operation)

Press the VOLUME △ button to increase the volume and the VOLUME▽ button to decrease the volume.

- The volume display can be changed within the range of "0" to "30".

■ Bass



(Main unit operation)

1 Press the BASS/TREBLE button to select "BASS".

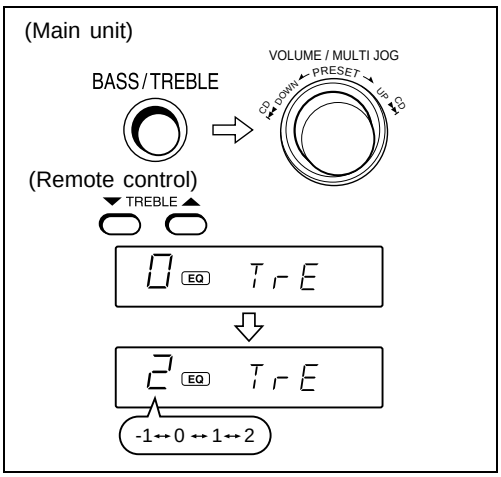
2 Turn the jog dial to adjust the bass.

- The bass level can be changed within the range of "-2" to "5".

(Remote control operation)

Press the BASS (▽ or △) button to adjust the bass.

■ Treble



(Main unit operation)

1 Press the BASS/TREBLE button to select "TrE".

2 Turn the jog dial to adjust the treble.

- The treble level can be changed within the range of "-1" to "2".

(Remote control operation)

Press the TREBLE (▽ or △) button to adjust the treble.

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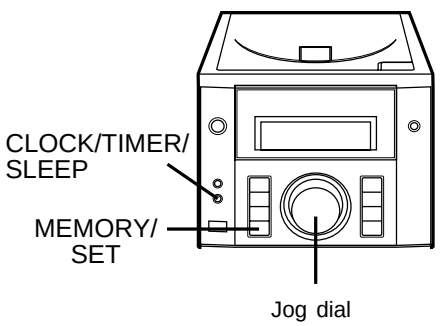
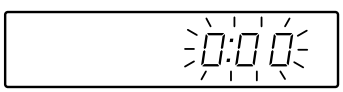
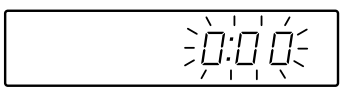
SETTING THE CLOCK

(Main unit operation)

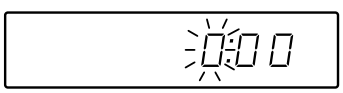
In this example, the clock is set for the 24-hour (0:00) system.

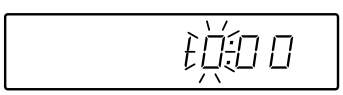


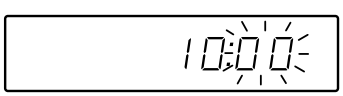
2 

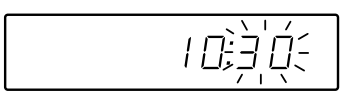
3 

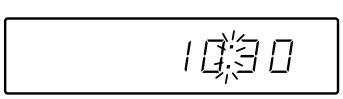
0:00 ⟷ AM 12:00

4 

5 

6 

7 

8 

1 Press the CLOCK/TIMER/SLEEP button to enter the time check mode.

2 Within 3 seconds, press the MEMORY/SET button.

3 Turn the jog dial to select the time display mode.
"0:00" → The 24-hour display will appear. (0:00 - 23:59)
"AM 12:00" → The 12-hour display will appear. (AM 12:00 - PM 11:59)

- Note that this can only be set when the unit is first installed or it has been reset (see page 16).

4 Press the MEMORY/SET button.

5 Adjust the hour by turning the jog dial.

- When the jog dial is turned one click clockwise, the time will increase by 1 hour. When it is turned one click anti-clockwise, the time will decrease by 1 hour.
  Keep turning the jog dial to change the time continuously.
- When the 12-hour display is selected, "AM" will change automatically to "PM".

6 Press the MEMORY/SET button.

7 Adjust the minutes by turning the jog dial.

- When the jog dial is turned one click clockwise, the time will increase by 1 minute. When it is turned one click anti-clockwise, the time will decrease by 1 minute.
  Keep turning the jog dial to change the time continuously.
- The hour setting will not advance even if minutes advance from "59" to "00".

8 Press the MEMORY/SET button.

- The clock starts operating from "0" seconds. (Seconds are not displayed.)

Note:

- In the event of a power failure or when the AC power lead is disconnected, the clock display will go out.
  When the AC power supply is restored, the clock display will flash on and off to indicate the time when the power failure occurred or when the AC power lead was disconnected.
  If this happens, follow the procedure below to change the clock time.

To change the clock time:

Perform steps 1, 2 and 5 - 8 above.

To change the time display mode:

1 Perform steps 1 - 3 in the section "RESETTING THE MICROCOMPUTER", on page 16.

2 Perform steps 1 - 8 above.

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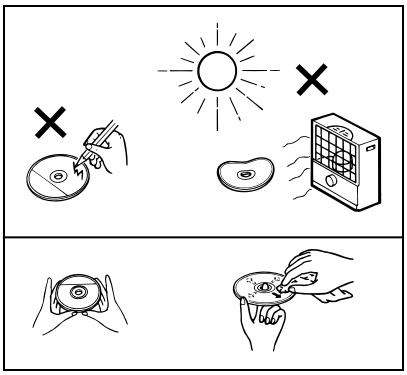
COMPACT DISC OPERATION

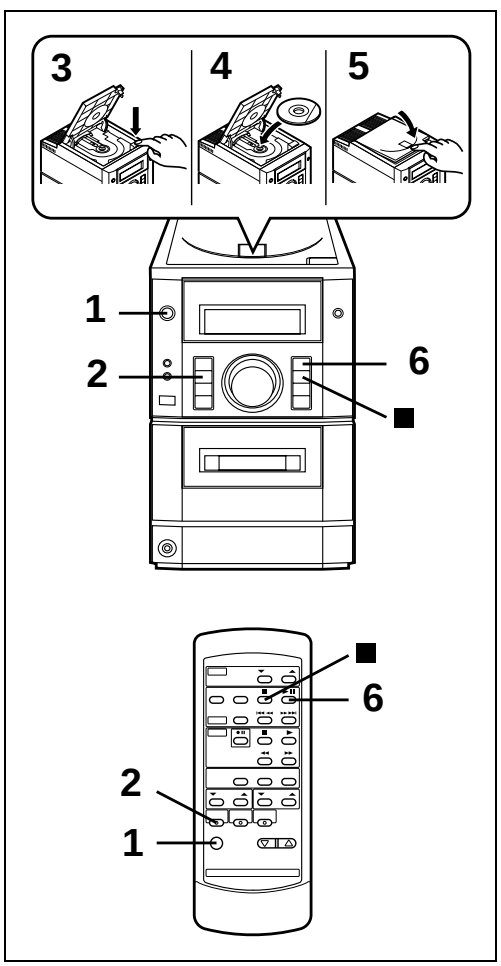
■ Care of compact discs



Compact discs are fairly resistant to damage, however mistracking can occur due to an accumulation of dirt on the disc surface.
Follow the guidelines below for maximum enjoyment from your CD collection and player.

- Do not write on either side of the disc, particularly the non-label side. Signals are read from the non-label side. Do not mark this surface.
- Keep your discs away from direct sunlight, heat, and excessive moisture.
- Always hold the CDs by the edges. Fingerprints, dirt, or water on the CDs can cause noise or mistracking. If a CD is dirty or does not play properly, clean it with a soft, dry cloth, wiping straight out from the centre, along the radius.

■ CD playback



1 Press the ON/STAND-BY button to turn the power on.

2 Press the FUNCTION button until "Cd" appears in the display.

- Press the CD button on the remote control.

3 Press the ⏏ CD EJECT button to open the CD compartment.

4 Place a compact disc on the spindle, label side up.

5 Close the CD compartment by firmly pushing the corner marked "PUSH CLOSE".

- The total number of tracks and the total playing time will be displayed.

6 Press the ► / CD ❚❚ (► ❚❚) button to start playback from track 1.

- When the last track on the disc has finished playing, the unit will stop automatically.

To interrupt playback:

1 Press the ► / CD ❚❚ (► ❚❚) button.

2 Press the ► / CD ❚❚ (► ❚❚) button again to resume playback from the same point.

To stop playback:

Press the ■ button.

After use:

Press the ON/STAND-BY button to enter the stand-by mode.

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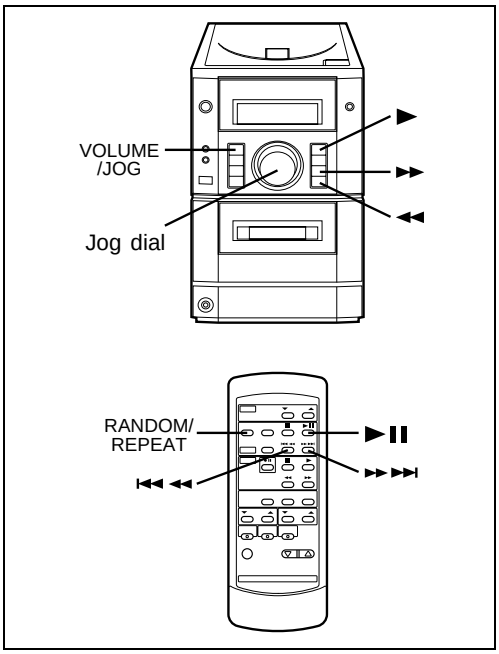

■ Repeat and random play

(Remote control operation)

1 Press the RANDOM/REPEAT button.

● Each time this button is pressed, the mode will change in the following order:

Repeat play → Random play → Normal play

2 Press the ▶ / CD ❚❚ (▶ ❚❚) button to start playback.

To cancel repeat or random play:

Press the RANDOM/REPEAT button until "↻" or "RANDOM" disappears.

To repeat playback of selected tracks:

After entering the programme for the tracks you want to hear using "APMS", select repeat play and start playback.

Notes:

● When using random play or repeat play, be sure to press the ■ button after you are through listening. Otherwise, the disc will play continuously.

● During APMS operation, random play is not possible.

■ APSS (Auto Program Search System)

APSS automatically locates the beginning of any track.

To listen again to the track being played:

(Main unit operation)

1 Press the VOLUME/JOG button.

● The track number will flash.

2 Whilst the track number is flashing, turn the jog dial anti-clockwise.

(Remote control operation)

Press the |◀◀ ◀◀ button for less than 0.5 seconds during playback.

To move to the beginning of the next track:

(Main unit operation)

1 Press the VOLUME/JOG button.

● The track number will flash.

2 Whilst the track number is flashing, turn the jog dial clockwise.

(Remote control operation)

Press the ▶▶ ▶▶| button for less than 0.5 seconds during playback.

● To skip a number of tracks at one time, press the |◀◀ ◀◀ or ▶▶ ▶▶| button on the remote control repeatedly until the desired track number is shown.

● To start playing at a desired track, press the |◀◀ ◀◀ or ▶▶ ▶▶| button on the remote control whilst in the stop mode to select the track number, and then press the ▶ / CD ❚❚ (▶ ❚❚) button.

■ Cue and review

1 Load a disc and begin playback.

2 Hold the ▶▶ button down for audible fast forward, and hold the ◀◀ button down for audible fast reverse.

3 Normal playback will resume when the ▶▶ or ◀◀ button is released.

Notes:

● When the end of the disc is reached whilst cueing, the "End" will appear in the display and CD operation is paused. Press the ■ button to stop CD operation.

● If the beginning of the disc is reached whilst reviewing, the mode will automatically switch to normal playback at that point.

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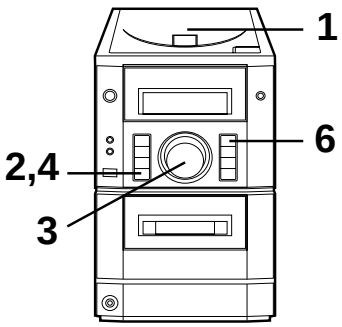

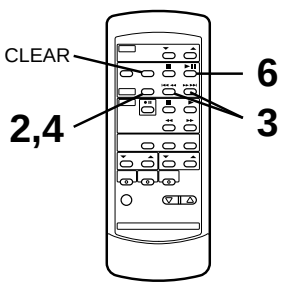

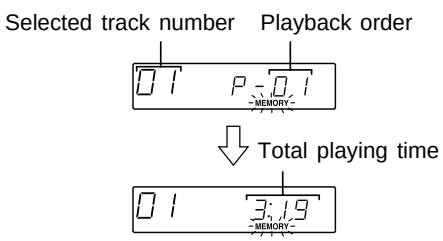

Caution:
- Do not open the CD compartment during playback (or whilst paused).
- If the disc is damaged, dirty, or loaded upside down, "no dISC" or "READ ERR" will appear in the display.
  Clean, replace, or reload the disc properly.
- Keep foreign objects out of the CD compartment.
- Subjecting the unit to shock or vibration may cause mistracking.
- When the unit is not being used, be sure to close the CD compartment. If it is left open, the lens may become covered with dust and the unit may not operate properly.
- Playing certain compact discs at a high volume may cause mistracking. In this case, listen at a lower volume.
- If TV or radio interference occurs during CD operation, move the unit away from the TV or radio.

■ APMS (Automatic Programmable Music Selector)

- The CD can be programmed to play the tracks in any order, or skip certain tracks.

1 Load a compact disc and close the CD compartment.

2 Press the MEMORY/SET (MEMORY) button to prepare for programming.

- "MEMORY" will flash.

3 Within 30 seconds, turn the jog dial on the main unit or press the ◀◀ / |◀◀ or ▶▶ / ▶▶| button on the remote control to select the desired track.

4 Press the MEMORY/SET (MEMORY) button.

- The selected track number and the programmed playback order will be displayed.
- After 2 seconds, the total playing time of the programmed tracks will be displayed automatically.

5 Repeat steps 3 - 4 for any other track Up to 20 tracks can be programmed.

- If you make a mistake whilst in the programming mode (when MEMORY is flashing) or if you change your mind, the programmed tracks can be cleared by pressing the CLEAR button on the remote control. The tracks will be cleared sequentially starting with the last entered track.

6 Press the ► / CD ❚❚ (► ❚❚) button to start playback of programmed selections.

To clear all the programmed selections:

To cancel a programmed sequence, press the CLEAR button on the remote control whilst the disc is stopped and the "MEMORY" indicator is lit.

Notes:
- Opening the CD compartment automatically cancels the programmed sequence.
- Even if you press the ON/STAND-BY button to enter the stand-by mode or the function is changed from CD to some other function, the programmed selections will not be cleared.
- Programming is not possible during CD playback. It must be performed whilst the CD is stopped.
- When in the random play mode (whilst "RANDOM" is lit), programming is not possible.
  To perform some programming, cancel the random play mode.

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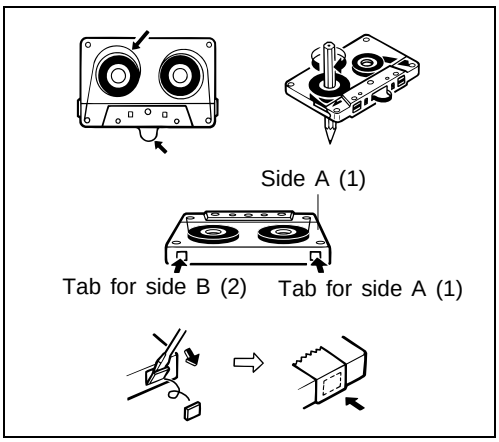
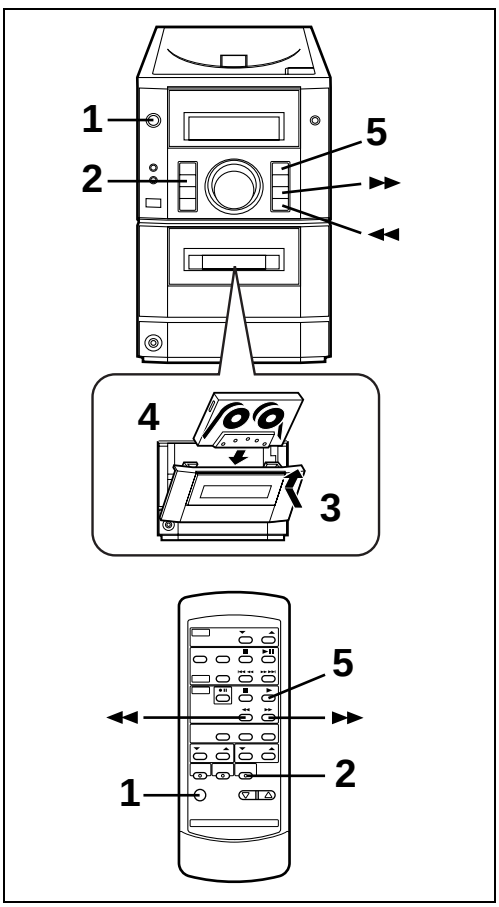
CASSETTE OPERATION

■ Cassette tape



- For playback, use normal or low-noise tape for the best sound. (Metal or CrO_2 tape is not recommended.)
  For recording, use only normal tape.
- Do not use C-120 tapes, tapes with large diameter reels, or poor-quality tapes, as they may cause malfunctions.
- Before loading a tape into the cassette compartment, tighten the slack with a pen or pencil.
- Cassettes have removable tabs which prevent accidental recording or erasing from taking place. Removing the tab will protect the corresponding side from being erased. Cover the tab holes with adhesive tape to erase or record again.

■ Tape playback



1 Press the ON/STAND-BY button to turn the power on.

2 Press the FUNCTION button until "TP" appears in the display.

- Press the TAPE button on the remote control.

3 Open the cassette door by pushing the area marked "▲ PUSH EJECT".

4 Load the cassette into the cassette compartment.

5 Press the ► button.

To stop playback:

Press the ■ button.

Fast forward/rewind:

To advance the tape, press the ■ button, then press the ►► button. To rewind, press the ■ button, then press the ◄◄ button.

Caution:

- When removing the cassette tape, press the ■ button, and then open the cassette compartment.
- Before changing from one tape operation to another, press the ■ button.
- If a power failure occurs during tape operation, the tape head will remain engaged with the tape and the cassette door will not open. In this case, wait until power is restored.
- Even if the ► button is pressed during tape playback, the unit will not enter the pause mode.

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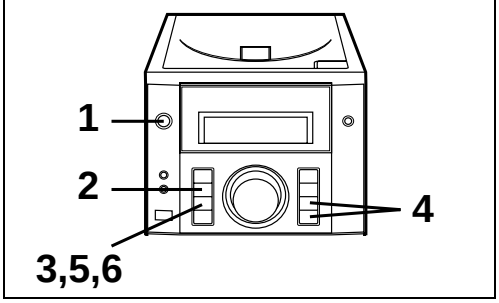
RADIO OPERATION

■ Tuning

(Main unit operation)



1 Press the ON/STAND-BY button to turn the power on.

2 Press the FUNCTION button until "FM" or "AM" appears in the display.

3 Press the BAND button to select the desired frequency band. (FM ST, FM or AM)

4 Press the TUNING (∨ or ∧) button to tune in to the desired station.

Manual tuning:

Press the TUNING (∨ or ∧) button as many times as required to adjust the frequency shown on the display to the frequency of the desired station.

Auto tuning:

When the TUNING (∨ or ∧) button is pressed for more than 0.5 seconds, scanning will start automatically and the tuner will stop at the first receivable broadcast station.

Notes:

- When radio interference occurs during auto scan tuning, auto scan tuning may stop automatically at that point.
- If a weak station signal is found during auto scan tuning, the station will be skipped.
- To stop the auto tuning, press the TUNING (∨ or ∧) button again.

5 To receive an FM stereo transmission, press the BAND button so that the "ST" indicator on the display lights up.

- "∞" will appear when an FM broadcast is in stereo.

6 If the FM reception is weak, press the BAND button so that the "ST" indicator goes out.

- The reception changes to monaural, the sound becomes clearer.

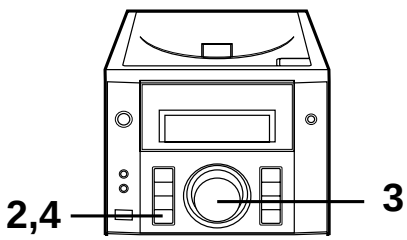
Note:

- The last station tuned in will be recalled, even after changing the tuning band or the function, or after switching the unit to the stand-by mode.

■ Preset tuning

You can store up to 30 stations in memory (30 stations consisting of any combination of FM and AM stations you like) and recall them at the push of a button.

(Main unit operation)



To enter stations into memory:

1 Perform steps 1 - 6 in the "Tuning" section.

2 Press the MEMORY/SET button.

- "MEMORY" will flash.

3 Within 5 seconds, turn the jog dial to make the preset channel number flash in the display.

- Store the stations in memory, in order, starting with preset channel 1.

4 Within 5 seconds, press the MEMORY/SET button to store that station in the selected station preset number memory.

- If the "MEMORY" and preset number indicators go out before the station is memorised, repeat the operation from step 2.

5 Repeat steps 1 - 4 to set other preset stations, or to change a preset station.

After use:

Press the ON/STAND-BY button to enter the stand-by mode.

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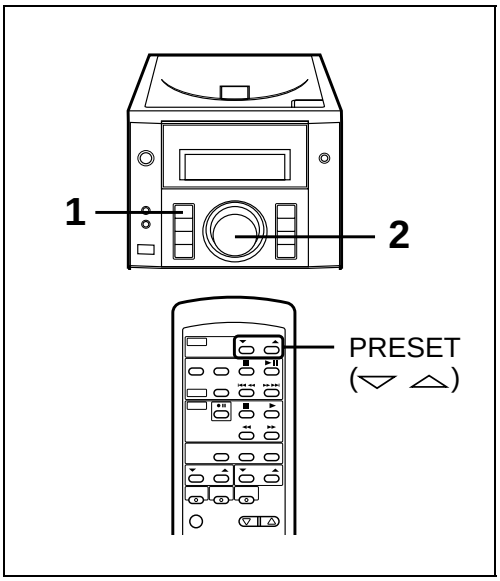
(Continued)

To recall a memorised station:



(Main unit operation)

1 Press the VOLUME/JOG button.

● The preset channel number will flash.

2 Whilst the preset channel number is flashing, turn the jog dial to select the desired station.

(Remote control operation)

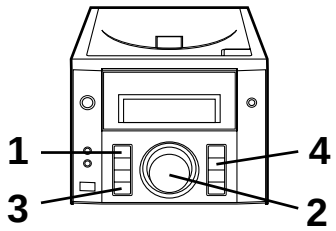
Press the PRESET (▽ or △) button for less than 0.5 seconds to select the desired station.

● The stations (preset channel number, frequency and frequency band) which have been stored in memory will appear in the display in numerical order, irrespective of the frequency bands.

Note:
When searching for a memorised station, do not press the PRESET button for more than 0.5 seconds.
When the PRESET button is pressed for more than 0.5 seconds, the unit will enter the preset memory scan mode.

To clear a memorised station:

(Main unit operation)



1 Press the VOLUME/JOG button.

2 Turn the jog dial to select the preset channel number you want to erase.

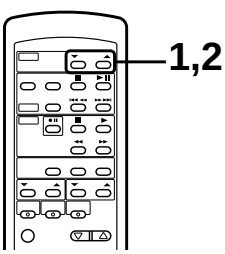
3 Press the MEMORY/SET button.

4 Within 5 seconds, press the CLEAR button.

■ Preset memory scan

The stations saved in the preset memory can be scanned automatically.

(Remote control operation)



1 To scan the preset stations, press the PRESET (▽ or △) button for more than 0.5 seconds.

● The station preset number flashes and programmed stations are sequentially received for 5 seconds each.

2 Press the PRESET (▽ or △) button again to stop the memory scan at the desired station.

Note:
When the preset memory does not have any stations stored in it, the preset memory scan will not function.

Backup function:

The backup function protects all station presets for a few hours should there be a power failure or the AC power lead is removed from the AC socket.

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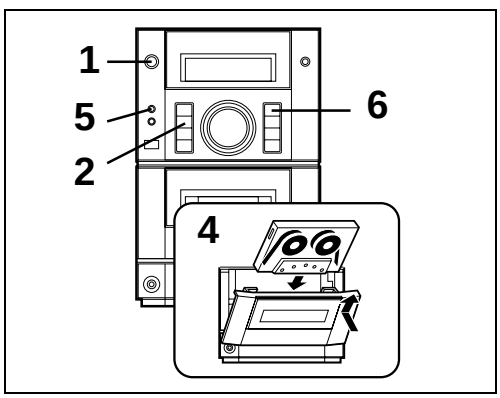
RECORDING

- When recording important selections, be sure to make a preliminary test to ensure that the desired material is being properly recorded.
- The ALC (Automatic Record Level Control) circuit automatically controls the level of the input signal used for recording.
- The VOLUME, BASS and TREBLE controls may be adjusted with no effect on the recorded signal. (Variable Sound Monitor)
- Metal and CrO_2 tapes should not be used for recording.

■ Recording from the built-in CD player (CD Synchronised Recording System)



1 Press the ON/STAND-BY button to turn the power on.

2 Press the FUNCTION button until "Cd" appears in the display.

3 Load the desired disc.

- Use the APMS function to store the tracks you want to record in memory. (See page 9.)

4 Load a cassette into the cassette compartment.

5 Press the REC PAUSE button.

- "REC" will flash.

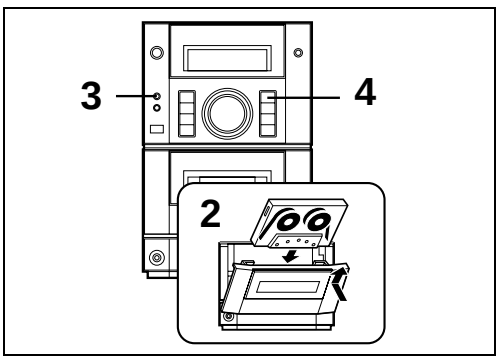
6 Press the ► button.

To stop recording:

Press the ■ button.

- The tape will stop. When the ■ button is pressed again, the CD will stop.
- When you press the CD ■ button on the remote control, the CD and tape will stop.

■ Recording from the built-in radio



1 Tune in to the desired station. (See pages 11 - 12.)

2 Load a cassette into the cassette compartment.

3 Press the REC PAUSE button.

- "REC" will flash.

Beat cancel switch:

If a whistling noise occurs when recording from an AM station, press the REC PAUSE (Beat Cancel) button repeatedly in the recording stand-by mode to select A or B, whichever gives the best reception.

4 Press the ► button.

To stop recording:

Press the ■ button.

■ Erasing a recorded tape

1 Press the FUNCTION button until "TP" appears in the display.

2 Press the REC PAUSE button.

- "REC" will flash.

3 Press the ► button.

Note:

- When the REC PAUSE button is pressed in the recording stand-by mode or whilst recording, it functions as a beat cancel switch which might be needed when you make recordings from radio stations. (A or B will be displayed repeatedly.)
  Although this is also displayed when you make recordings from CDs or whilst erasing a tape, the REC PAUSE button is ineffective as a beat cancel switch at those times.

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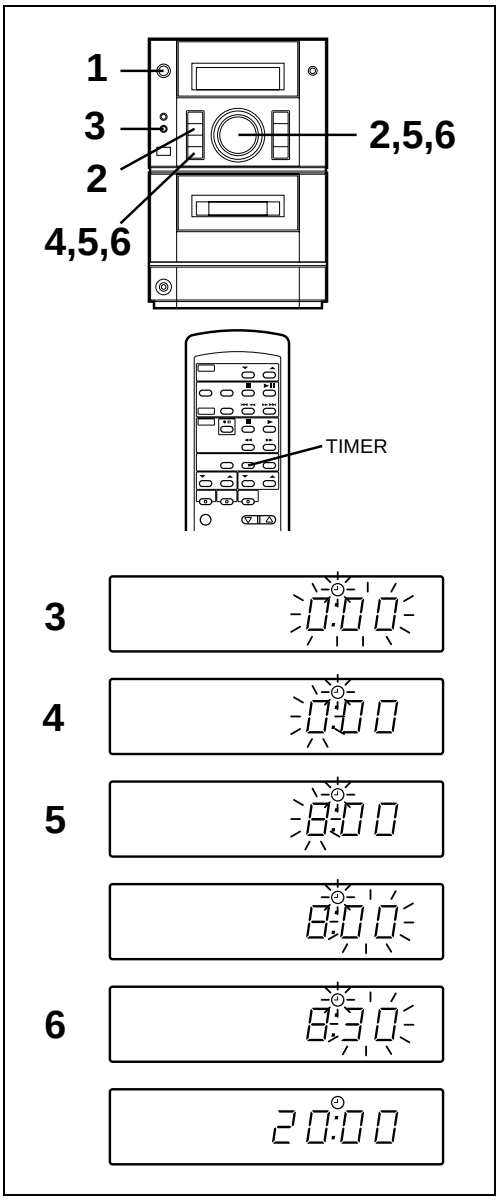
HOW TO USE THE BUILT-IN TIMER

■ Timer playback



● Before setting the timer, make sure that the clock setting is correct. (Page 6)

1 Press the ON/STAND-BY button to turn the power on.

2 Press the FUNCTION button to select the desired function, and then adjust the sound volume using the VOLUME control.

3 Press the CLOCK/TIMER/SLEEP button repeatedly until "◴" is displayed.

4 Within 6 seconds, press the MEMORY/SET button.

● If more than 6 seconds have passed, start again from step 3.

5 Turn the jog dial to set the hour at which to start, and then press the MEMORY/SET button.

6 Turn the jog dial to set the minute at which to start, and then press the MEMORY/SET button.

● The timer playback starting time, function, and volume will be displayed, and then the unit will enter the stand-by mode automatically.

● "◴" will appear and the current time will be displayed.

7 When the preset time is reached, the volume will increase gradually until it reaches the volume you were listening to before the unit went into the stand-by mode.

8 If you select CD or TAPE during timer playback, the unit will enter the stand-by mode after the tape or CD is finished playing back. If you select TUNER, the unit will enter the stand-by mode one hour later.

Caution:

● Timer recording is not possible.

● Recording operations are not possible during timer playback.
To make a recording, stop the timer playback.

To confirm the timer setting:

Press the CLOCK/TIMER/SLEEP button on the main unit twice or press the TIMER button on the remote control once.

● The timer playback starting time, function, and volume will be displayed.

● If you press the TIMER button on the remote control whilst confirming the timer setting (whilst "◴" is flashing), you can turn the timer playback stand-by mode on or off.

To change the programmed contents:

After cancelling the timer mode, perform steps 1 - 6 above.

To cancel timer operation:

Press the ON/STAND-BY button to turn the power on.

Note:

● The previously programmed timer starting time will be stored until it is reprogrammed.

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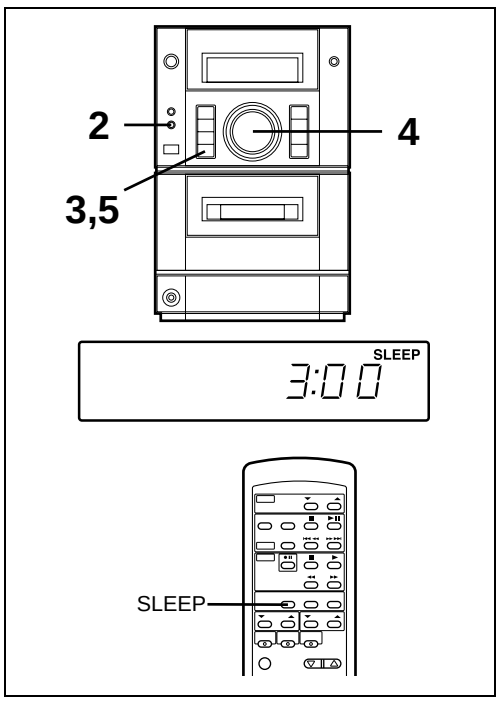
(Continued)

■ Sleep operation

The radio, compact disc and cassette deck can all be turned off automatically.



(Main unit operation)

1 Play back the desired sound source.

2 Press the CLOCK/TIMER/SLEEP button repeatedly until "SLEEP" is displayed.

3 Within 5 seconds, press the MEMORY/SET button.

4 Turn the jog dial to set the time.
(Maximum 3 hours - Minimum 5 minutes, 5-minute intervals)

OFF ↔ 5 minutes .... ↔ 3 hours

5 Press the MEMORY/SET button.

6 The unit will enter the stand-by mode automatically after the preset sleep time has elapsed.
(The volume will gradually decrease one minute before the preset sleep time expires.)

To confirm the remaining sleep time:

Press the CLOCK/TIMER/SLEEP button three times.

(Remote control operation)

1 Play back the desired sound source.

2 Press the SLEEP button.

● The sleep timer is initially set to 3 hours.

To change the sleep time:

Press the SLEEP button repeatedly to select the desired sleep time. The time will decrease as follows.

● The amount of sleep time can also be changed whilst in the sleep mode.

3 hours → 2 hours → 1 hour 30 minutes
↑ ↓
OFF ← 15 minutes ← 30 minutes ← 1 hour

3 The unit will enter the stand-by mode automatically after the preset sleep time has elapsed.
(The sound volume will be reduced one minute before the preset sleep time expires.)

To confirm the remaining sleep time:

Press the SLEEP button once.

To cancel the sleep operation:

Press the ON/STAND-BY button to enter the stand-by mode.

■ Simultaneous sleep and timer operation

1 Prepare for timer playback.
(Perform steps 1 - 6 on page 14.)

2 Press the SLEEP button repeatedly to select the desired sleep time.

3 Play the desired item (compact disc, tape, etc.).

4 When the preset sleep time has elapsed, the unit will automatically enter the stand-by mode.

5 When the timer preset time is reached, timer playback will start.

Caution:

● Be sure your tape length is long enough to perform both functions.
If you want to go to sleep and wake up listening to a tape, and the length of the tape is shorter than the sleep timer setting, timer playback will not be possible.

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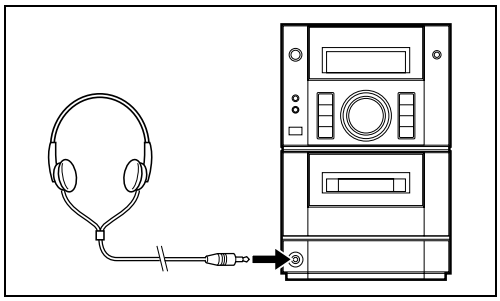
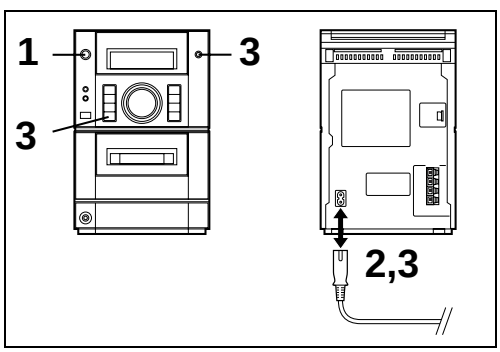
HEADPHONES



- Before plugging in or unplugging the headphones, make sure the volume level is reduced.
- Be sure your headphones have a 3.5 mm (1/8") diameter plug and are between 16 ohms and 50 ohms impedance. The recommended impedance is 32 ohms.
- When headphones are connected, the speakers are disconnected automatically. Adjust the VOLUME control for desired volume.

RESETTING THE MICRO-COMPUTER



Reset the microcomputer under the following conditions:

- To erase all of the stored memory contents (clock and timer settings, and tuner and CD presets).
- If the display is not correct.
- If the operation is not correct.

1 Press the ON/STAND-BY button to enter the stand-by mode.

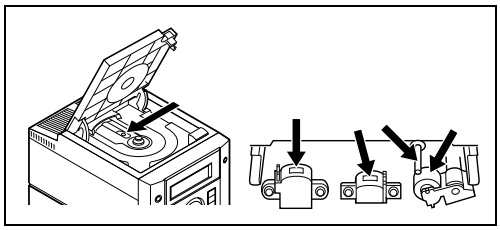
2 Unplug the AC power lead from the AC INPUT socket on this unit.

3 Whilst pressing down the MEMORY/SET button and the BASS/TREBLE button, plug the AC power lead into the AC INPUT socket on this unit.

Caution:

- The operation explained above will erase all data stored in memory, such as clock and timer settings, and tuner and CD presets.

MAINTENANCE



Internal care

- Do not touch the Laser pickup lens. If fingerprints or dust accumulate on the pickup, clean it gently with a dry cotton swab.
- Dirty heads, capstan or pinch roller can cause poor sound and tape jams. Clean these parts with a cotton swab moistened with commercial head/pinch roller cleaner or isopropyl alcohol.
- After long use, the deck's heads and capstan may become magnetised, causing poor sound. Demagnetise these parts once every 30 hours of playing/recording time by using a commercial tape head demagnetiser. Read the demagnet-iser's instructions carefully before use.

External care

- Periodically wipe the cabinet with a soft cloth and a diluted soap solution, then wipe with a dry cloth.
- Do not use chemically treated cleaning cloths or other chemicals.

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SPECIFICATIONS

As a part of our policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice. The performance specification figures indicated are nominal values of production units. There may be some deviations from these values in individual units.

■ Main unit

● General

Power source:	AC 230 V, 50 Hz
Power consumption:	Stand-by; 0.6 W Power on; 24 W
Dimensions:	Width; 160 mm (6-5/16") Height; 241 mm (9-1/2") Depth; 249 mm (9-13/16")
Weight:	2.6 kg (5.7 lbs.)

● Amplifier section

Output power:	RMS; 10 W (5 W + 5 W) (10 % T.H.D.)
Output terminals:	Speakers; 4 ohms Headphones; 16-50 ohms (recommended; 32 ohms)

● Tuner section

Frequency range:	FM; 87.5-108 MHz AM; 522-1,620 kHz

● Compact disc player section

Type:	Compact disc player
Signal readout:	Non-contact, 3-beam semiconductor laser pickup
D/A converter:	1-bit D/A converter
Filter:	8-times oversampling digital filter
Frequency response:	20 - 20,000 Hz
Wow and flutter:	Unmeasurable (less than 0.001% W. peak)

● Cassette deck section

Frequency response:	50 - 14,000 Hz (Normal tape)
Signal/noise ratio:	50 dB
Wow and flutter:	0.25 % (WRMS)

■ Speaker

Type:	Full range speaker system
Speakers:	10 cm (4") full-range speaker
Rated input power:	5 W
Maximum input power:	10 W
Impedance:	4 ohms
Dimensions:	Width; 145 mm (5-3/4") Height; 240 mm (9-1/2") Depth; 191 mm (7-1/2")
Weight:	1.4 kg (3.1 lbs.)/each

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TERMS OF GUARANTEE

Sharp Electronics (UK) Ltd. ("Sharp") guarantees to provide for the repair, or at its option the replacement, of this product subject to the conditions listed below:-

1. This guarantee shall only apply to faults which are due to inferior workmanship or materials. It does not cover faults or damage caused by accident, misuse, fair wear and tear, neglect, tampering with the product, or repair other than by a Service Facility appointed by Sharp.

2. As this product is intended for private domestic use only, the guarantee will not apply if the product is used in the course of a business, trade or profession.

3. To benefit from this guarantee, any fault which occurs must be notified to Sharp, or its appointed Service Facility within one year from the date this product was purchased. Proof of purchase must be provided.

4. The guarantee does not cover carriage costs, jewelled styli, audio tapes, compact discs or batteries.

5. In the unlikely event of this product requiring repair, please contact the supplier from whom it was purchased. Where this is not possible, please contact the Sharp Customer Information Centre on the telephone number given below.

6. No person has any authority to vary the terms or conditions of this guarantee.

7. This guarantee is offered as an additional benefit to your statutory rights, and does not affect these rights in any way.

If you have any difficulty operating this product, or would like information or other Sharp products, please telephone the Sharp Customer Information Centre on the number given below.

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